User Manual WEB

Power Supplies

(EN) User Manual

Language specific user manuals are available on
www.mascot.no/downloads/usermanuals

Bruksanvisning
Käyttöohjeet
Bedienungsanleitung
Mode d'emploi
Manual de instrucciones
Istruzioni per l'uso

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IMPORTANT SAFETY INSTRUCTIONS!

TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK:

READ THROUGH THESE INSTRUCTIONS PRIOR TO USING THE PRODUCT.

CAREFULLY FOLLOW THESE INSTRUCTIONS WHEN USING THE PRODUCT.

RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE.

CAUTION! DOUBLE POLE / NEUTRAL FUSING!

This product is designed for indoor use.
(Not applicable to products marked "IP67")

IP41 IP44 IP67

A version of this product marked "IP41" may be available. This version is protected against ingress of solid objects larger than 1.0 mm and the effects of vertically falling drops of water according to standard EN/IEC 60529.

A version of this product marked "IP44" may be available. This version is protected against ingress of solid objects larger than 1.0 mm and the effects of water splashed against the enclosure from any direction according to standard EN/IEC 60529.

A version of this product, marked with a symbol with two drops of water and/or "IP67", may be available. This version is filled with a potting compound and is dust-tight and protected against the effects of temporary immersion in water according to standard EN/IEC 60529, but must not be immersed in water for longer periods of time.

Products marked with the "double square symbol" are double insulated (Insulation Class II). Products without this mark are Class I (relies on safety earth for protection).
WARNING: To avoid risk of electric shock, Class I products must only be connected to a supply mains with protective earth.

At the end of their service life electric and electronic equipment and their accessories shall not be discarded with the municipal waste but be disposed of using separate collection, treatment, recovery/recycling and environmentally sound disposal. This also applies to any potentially bio hazardous parts and accessories. If in doubt; contact your local authorities to determine the proper method.

Technical specifications for your product:
See tables, the marking on the product or www.mascot.no

Cautions to observe prior to use

- The intended use for this product is to charge a battery or a battery powered electrical accessory (NiCd/NiMH, Lead-Acid, Lithium-Ion or $LiFePO_4$ batteries) or to be used as a Power Supply to power an electrical accessory. Please see the marking on the product you have to verify the type of product you have and read the applicable instructions and technical specifications included with this manual.
- This product may be used by unskilled operators, under the condition that these instructions are followed.
- Unskilled operators may contact the supplier or manufacturer for assistance, if needed, in setting up, using or maintaining this product and to report unexpected operation or events.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance.
- Do not allow animals to come into contact with this product. Some animals are known to cause damage to cables etc which may be a potential for risk of electric shock and excessive temperatures. Also, cables and small parts may represent a strangulation risk for the animal.
- If the product is equipped with a mains cord, please check that the cord is not damaged. If the cord is damaged, the product must not be used until the cord is replaced. Replacement should be carried out by qualified personnel.
- The mains socket outlet used should always be easily accessible to facilitate immediate removal of the products mains supply should an operational error occur during use. If the product has a detachable mains cord the appliance coupler may be used as a disconnect device.
- The product is “switched on” by inserting the mains plug into the mains socket and “switched off” by disconnecting the mains plug from the mains socket.
- The product may be connected to an IT type mains supply.
- For use in U.S.A.:
  - Be sure to use 125V 15A receptacle configuration before plugging in.
  - Use a UL817-standard compliant mains cord (plug type NEMA 1-15, cord type SJT or SVT).
- For use outside U.S.A:
  Use a mains cord compliant with the country specific requirements.
- The time from powering this product until its full function starts may exceed 15 seconds.
- Should an operational error or unexpected change in the performance occur during use; disconnect the product from the mains immediately by disconnecting the mains plug from the mains socket and contact the supplier
- When not in use please think about disconnecting the product from the mains. This will reduce the risk of hazards, reduce the products environmental impact and save electricity costs.
- To avoid overheating make sure there is sufficient room for the circulation of air around the product when in use. Do not cover it up.
- Even though this product complies with relevant safety standards it should not be in contact with human skin for long periods as some people may get allergies or injuries from long-term contact with moderate temperatures and/or plastic materials.
- Prior to using this product with accessories and/or interconnected equipment please carefully read its respective User Manuals.
- If the product is supplied with exchangeable output plugs, please see separate page for assembly.

- Output cables having a modular plug (similar to a telephone connector) must never be connected to a telephone outlet.
- Products with a welded plastic housing are not repairable. Please contact your supplier for replacement part.
- This product contains hazardous voltages and there are no user replaceable parts inside the product. Never attempt to remove the cover.
- WARNING: No modification of this equipment is allowed. Any repair/service should be carried out by qualified personnel who may get assistance by contacting the manufacturer or the manufacturer's agent.
- Products specified to have automatic polarity protection must be switched off if a battery is connected with reverse polarity. The protection will be automatically reset when the polarity has been corrected.
- In chargers specified to have a replaceable fuse as polarity protection the fuse must be replaced if the battery has been connected with reverse polarity. When replacing the fuse; a fuse of the same type and rating must be used.
- If the product is specified to comply with the standard for Medical Electrical Equipment (standards based on IEC60601-1) it complies with some of the requirements for medical electrical equipment and may be used in medical applications and hospital environments.
- The product must not be used in the vicinity of flammable anesthetic gases or in other environments with flammable or explosive atmosphere.
- If the product is specified to comply with the standard for Medical Electrical Equipment for Home Healthcare Environment (standard IEC60601-1-11) it may be used in medical applications used in a home healthcare environment.

  NOTE: Products relying on safety earth for protection (Class I) may not be used in home healthcare environment unless they are permanently wired to the building installation:
  Installation must only be carried out by qualified service personnel, following the below instructions:
  - The protective earth conductor must be min. 0.75 mm^2.
  - Connect the protective earth conductor to the external protective earthing system.
  - Verify that the protective earth terminal used is connected to the external protective earthing system.
  - Verify the integrity of the external protective earthing system.
- This product converts the mains voltage to a safety extra low voltage.
  Some products may be treated as Applied Part (Type BF) according to standard EN/IEC 60601-1 and may come in physical contact with a patient.
- This product must be operated in an environment within temperature range +5 to +40°C, humidity 15 - 93 % RH and atmospheric pressure 70 - 106 kPa (700 - 1060 hPa).
- Expected service life of this product and accessories delivered with this product is three (3) years, if operated as indicated above. However; the guarantee times indicated in document "TERMS OF SALES AND DELIVERY FOR MASCOT AS" apply (available at www.mascot.com).
- Environmental parameters during transport and storage between uses: temperature range -25 to +85 °C, humidity 15 - 93% RH NC and atmospheric pressure 70 - 106 kPa (700 - 1060 hPa).
- If stored for longer periods of time the environmental parameters should be within the temperature range +5 to +35°C, humidity range 10 - 75% RH NC and atmospheric pressure 70 - 106 kPa (700 - 1060 hPa) to maintain the products expected service life.
- Expected shelf life of this product is one (1) year, if stored as indicated above.
- This product complies with the requirements to electromagnetic compatibility for medical elec-

tric equipment and for use in residential, office or light industrial environment but all electric products imply a potential for electromagnetic or other interference between the product and other devices. If such interference is suspected please disconnect the product from the mains and consult a qualified technician, your supplier or the manufacturer.

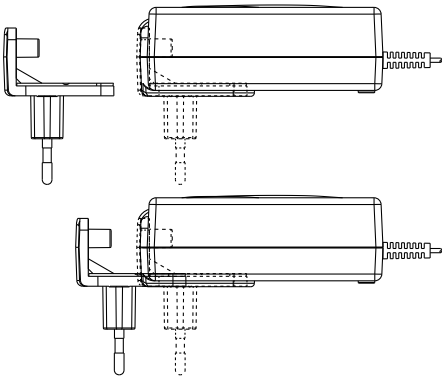
- No special maintenance procedure is required but if the product gets dusty or dirty it should be wiped clean using a dry cloth while the product is disconnected from the mains. No other maintenance should be necessary.
- For products having a plastic casing, please avoid any contact with lotions, oils, grease and solvents as most types of plastic may be degraded by such chemicals. Also make sure to position, operate and store such products away from UV-light and direct sunlight.
- Position, operate and store this product only under reasonable foreseeable environmental conditions with respect to magnetic fields, EM-fields, electrostatic discharges, pressure or variations in pressure, acceleration etc.
- If this product is used with or mounted in a vehicle it may only be used when the vehicle is not in use.
- When in use, position this product so that the label can be read – within 40 cm of the operator.

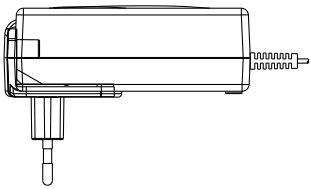
Instructions for using Power Supplies

Please follow cautions indicated above.

When the Power Supply is connected to the mains a LED might light. The Power Supply is then ready to use.

How to connect exchangeable AC-plugs



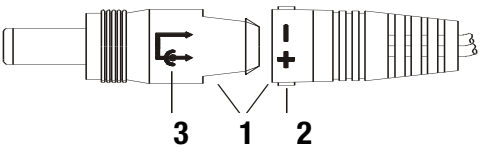


The following exchangeable AC plugs are available:

Type 018110 - "EURO"	250V 2.5A (EN50075/IEC83 C5 II)
Type 018111 - "US"	125V 2.5A (NEMA 1-15 / CSA-C22.2 No.42)
Type 018112 - "UK"	250V 13A (BS 1363)
Type 018114 - "AUS"	250V 10A (AS/NZS 3112)

Mains Cord Set is available on request if you wish your product to be "DeskTop"

How to connect exchangeable DC-output plugs



1. To connect for desired polarity, both plug ends are clearly marked.
2. When connected, the female plug is also marked on each side to identify plug polarity.
3. Shows the center polarity of the plug.

Technical data

(If not appearing in table see marking on the product)

	Input voltage	5V	7V	12V	16V	24V	36V	48V	60V	64V
2420	100-240Vac 50-60Hz	4-6V 4.5A	6-9V 4.5A	9-14.5V 4.5A	14.5-21.5V 4A	21-34V 2.5A	34-44V 2.05A	44-55V 1.6A	55-63V 1.25A	63-67V 1.1A

	Input voltage	5V	6V	7.5V	9V	12V	15V	18V	24V
3326	100-240Vac 50-60Hz	3A	2.5A	2A ?	2.5A	2.33A	1.86A	1.55A	1.16A

	Input voltage	5V	9V	13.2V	16V	24V	28V	36V	48V
2820	220-240Vac 50-60Hz	4-6V 8.5A	6-9V 8A	9-13.2V 7.5A	12-16.8V 6A	13.2-24V 4.2A	24-28V 3.8A	28-38V 2.7A	38-48V 2.1A

	Input voltage	6V	9V	13.2V	16V	24V	48V
2924 2925 2926	100-240Vac 50-60Hz	1.5A	1.5A	1.2A	1A	0.65A	0.33A

	Input voltage	5V	6V	9V	13.2V	16V
2720 2721	100-240Vac 50-60Hz	3.5A	5A	3A	3A	2.5A

	Input voltage	6V	7.5V	9V	12V	16V	24V	30V
3020 3021	100-240Vac 50-60Hz	8A	7A	6A	5A	3.75A	2.5A	2A

	Input voltage	9V	13.2V	16V	24V
2020 2021 2022	100-240Vac 50-60Hz	4.5A	4.5A	3.75A	2.7A